

CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

www.centrasemi.com

CT-32

DIAC

DO-35 CASE

DESCRIPTION

The Central Semiconductor CT-32 Diac functions as a trigger diode with a fixed voltage reference and low breakover current. This device is manufactured in a hermetically sealed glass package to ensure high reliability.

MAXIMUM RATINGS (T_A=25°C)

	SYMBOL		UNITS
Repetitive Peak On-state Current	I _{TRM}	2.0	A
tp=20μs, f=120Hz			
Operating and Storage Junction Temperature	T _J , T _{stg}	-40 to +125	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
V _{BO} *	C=22nF**	28	36	V
V _{BO1} - V _{BO2}	C=22nF**		3.0	V
ΔV	V _{BO} & V _F @ 10mA	5.0		V
V _O	See Figure 2	5.0		V
I _{BO}	C=22nF**		50	μA
I _R	V _R = 18V		10	μA
I _P	See Figure 2		0.3	A
t _r	See Figure 3		2.0	μs

* Both directions.

**Capacitor connected in parallel with device.

(SEE REVERSE SIDE)

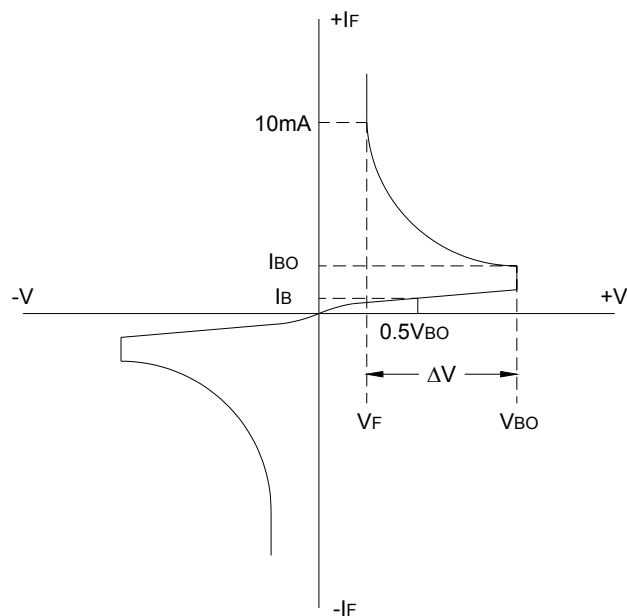


Figure 1. Voltage – Current characteristic curve.

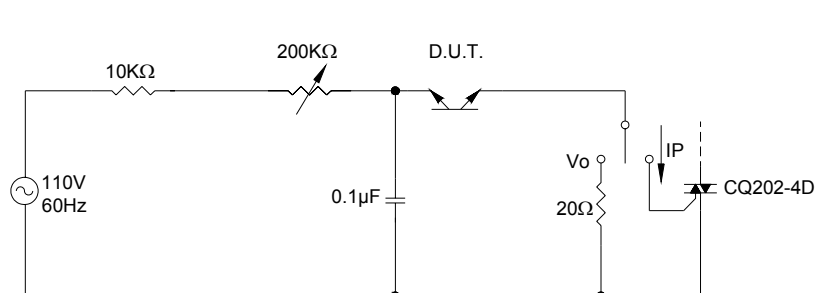


Figure 2. Test circuit.

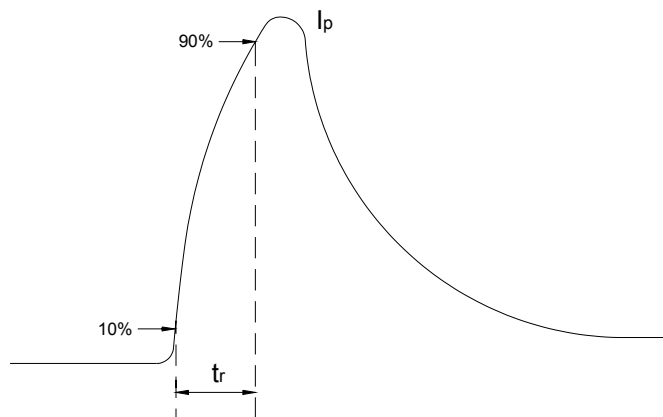
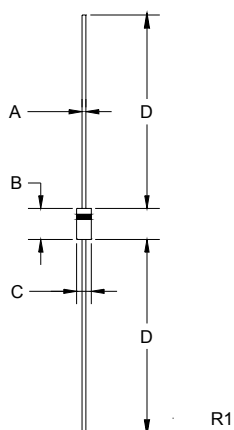


Figure 3. Rise time measurement.

DO-35 PACKAGE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.018	0.022	0.46	0.56
B	0.120	0.200	3.05	5.08
C	0.060	0.090	1.52	2.29
D	1.000	-	25.40	-

DO-35 (REV: R1)

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